



Commissioner for Patents
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*Admitted only in Maryland
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•Practice Limited to Federal Agencies

June 16, 2004

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Art Unit 1614

Re: U.S. Utility Patent Application
Appl. No. 10/733,582; Filed: December 12, 2003
For: **Ordered Molecular Presentation of Antigens, Method of Preparation and Use**
Inventors: Renner *et al.*
Our Ref: 1700.0030003/JAG/BJD/SJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (25 sheets citing 101 documents);
3. 74 documents cited in Form PTO-1449 (attached); and
4. One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

BJD/SJE/lam
Enclosures

275010.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Renner *et al.*

Appl. No.: 10/733,582

Filed: December 12, 2003

For: **Ordered Molecular Presentation of
Antigens, Method of Preparation and
Use**

Confirmation No.: 4575

Art Unit: 1614

Examiner: *To be assigned*

Atty. Docket: 1700.0030003/JAG/BJD/SJE

Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§1.56, 1.97 and 1.98.

A copy of documents **AO3**, and **AR1** to **AR25** is provided. Copies of documents **AL1** to **AO2** were previously cited or submitted in an IDS in compliance with 37 C.F.R. § 1.98(a)-(c) in Applicants' 35 U.S.C. § 120 priority Application No. 09/449,631, filed November 30, 1999, and are therefore not provided.

A copy of documents **AA1** to **AC2** is not provided in accordance with the U.S. Patent and Trademark Office OG notice of August 5, 2003, which states "[t]he Office hereby waives the requirement under 37 C.F.R. § 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication filed after June 30; 2003."

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following concise explanation of the relevance of the non-English language document **AO1** submitted herewith.

Document **AO1**, cited on the accompanying Form PTO-1449, is a non-English language PCT application. The relevance of Document **AO1** may be ascertained by reference to the unverified English language abstract appearing therein. Furthermore, Applicants submit herewith Document No. **AI1**, which issued from a U.S. national phase application based on Document **AO1**. Thus Applicants believe that Document **AI1** is an English language document related to Document **AO1**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: June 16, 2004
1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1700.0030003/JAG/BJD/SJEAPPLICATION NO.
10/733,582FIRST NAMED INVENTOR
Renner et al.FILING DATE
December 12, 2003ART UNIT
1614**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	5,071,651	12/10/1991	Sabara et al.	424	89	03/05/1990
	AB1	5,334,394	08/02/1994	Kossovsky et al.	424	494	01/04/1993
	AC1	5,374,426	12/20/1994	Sabara et al.	530	403	10/30/1989
	AD1	5,739,026	04/14/1998	Garoff et al.	435	240.2	08/13/1992
	AE1	5,770,380	06/23/1998	Hamilton et al.	435	7.1	09/13/1996
	AF1	5,766,602	06/16/1998	Xiong et al.	424	218.1	01/19/1995
	AG1	5,792,462	08/11/1998	Johnston et al.	424	199.1	05/23/1995
	AH1	5,814,482	09/29/1998	Dubensky, Jr. et al.	435	69.3	10/30/1996
	AI1	5,871,747	02/16/1999	Gengoux-Sedlik et al.	424	208.1	04/28/1995
	AJ1	5,789,245	08/04/1998	Dubensky, Jr. et al.	435	320.1	10/30/1996
	AK1	6,004,763	12/21/1999	Gengoux et al.	435	7.24	05/12/1998

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	EP 0 259 149 A2	03/09/1988	Europe			Yes No
	AM1	EP 0 425 082 A1	05/02/1991	Europe			Yes No
	AN1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AO1	WO 94/06472 A1	03/31/1994	WIPO			X Yes No
	AP1	WO 94/15585 A1	07/21/1994	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	1	Baba, T. W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825 (1995), American Association for the Advancement of Science
AS	1	Bachmann, M. F., et al., "Dendritic cells process exogenous viral proteins and virus-like particles for class I presentation to CD8+ cytotoxic T lymphocytes," <i>Eur. J. Immunol.</i> 26:2595-2600 (1996), VCH Verlagsgesellschaft mbH
AT	1	Bachmann, M. F. and Zinkernagel, R. M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558 (1996), Elsevier Science Ltd.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>		ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
		FIRST NAMED INVENTOR Renner et al.	
		FILING DATE December 12, 2003	ART UNIT 1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	4,722,840	02/02/1988	Valenzuela et al.	424	88	09/19/1985
	AB2	5,698,424	12/16/1997	Mastico et al.	435	172.3	01/03/1995
	AC2	5,143,726	09/01/1992	Thornton et al.	424	88	11/20/1989
	AD2						
	AE2						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 96/05293 A1	02/22/1996	WIPO			Yes No
	AM2	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN2	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AO2	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AP2	EP 0 465 081 B1	01/08/1992	Europe			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	2	Bachmann, M. F. and Zinkernagel, R. M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270 (April 1997), Annual Reviews Inc.
AS	2	Borisova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," <i>J. Virol.</i> 67:3696-3701 (1993), American Society for Microbiology
AT	2	Cesareni, G., "Peptide display on filamentous phage capsids," <i>FEBS Lett.</i> 307:66-70 (1992), Elsevier Science Publishers B.V.

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	AA3						
	AB3						
	AC3						
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	AE3						
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	AH3						
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	AJ3						
	AK3						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AM3	WO 99/07839 A2	02/18/1999	WIPO			Yes No
	AN3	WO 99/67293 A1	12/29/1999	WIPO			Yes No
X	AO3	EP 0 385 610 A1	09/05/1990	Europe			Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	3	Clark, H. F., et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) from <i>Vipera russelli</i> ," <i>J. Natl. Cancer Inst.</i> 51:645-657 (1973), Oxford University Press
AS	3	Connor, R. I., et al., "Immunological and Virological Analyses of Persons Infected by Human Immunodeficiency Virus Type 1 while Participating in Trials of Recombinant gp120 Subunit Vaccines," <i>J. Virol.</i> 72:1552-1576 (February 1998), American Society for Microbiology
AT	3	Crameri, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," <i>Gene</i> 137:69-75 (1993), Elsevier Science Publishers B.V.

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X Only For received

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	4	Daniel, M. D., et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the <i>nef</i> Gene," <i>Science</i> 258:1938-1941 (1992), American Association for the Advancement of Science
AS	4	Davis, N. L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," <i>Virology</i> 171:189-204 (1989), Academic Press Inc.
AT	4	de la Cruz, V. F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> 263:4318-4322 (1988), The American Society for Biochemistry and Molecular Biology Inc.

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			FILING DATE December 12, 2003	ART UNIT 1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes
	AM5						No
	AN5						Yes
	AO5						No
	AP5						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	5	Donnelly, J. J., et al., "DNA Vaccines," <i>Annu. Rev. Immunol.</i> 15:617-648 (April 1997), Annual Reviews Inc.				
AS	5	Fehr, T., et al., "Role of Repetitive Antigen Patterns for Induction of Antibodies Against Antibodies," <i>J. Exp. Med.</i> 185:1785-1792 (May 1997), The Rockefeller University Press				
AT	5	Förster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A ₂ has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235 (1995), Mosby-Year Book, Inc.				

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA6						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AO6						Yes No
	AP6						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	6	Fujiwara, K., et al., "Novel Preparation Method of Immunogen for Hydrophobic Hapten, Enzyme Immunoassay for Daunomycin and Adriamycin," <i>J. Immunol. Meth.</i> 45:195-203 (1981), Elsevier/North Holland Biomedical Press
AS	6	Gilbert, S. C., et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nature Biotechnol.</i> 15:1280-1284 (November 1997), Nature Publishing Group
AT	6	Greenstone, H. L., et al., "Chimeric papillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc. Natl. Acad. Sci. USA</i> 95:1800-1805 (February 1998), The National Academy of Sciences

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA7						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7						Yes No
	AM7						Yes No
	AN7						Yes No
	AO7						Yes No
	AP7						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	7	Hahn, C. S., et al., "Infectious Sindbis virus transient expression vectors for studying antigen processing and presentation," <i>Proc. Natl. Acad. Sci. USA</i> 89:2679-2683 (1992), National Academy Press
AS	7	Harding, C. V. and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933 (1994), The American Association of Immunologists
AT	7	Hilleman, M. R., "Six decades of vaccine development—a personal history," <i>Nature Med. Vaccine Suppl.</i> 4:507-514 (May 1998), Nature Publishing Group

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA8						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8						Yes No
	AM8						Yes No
	AN8						Yes No
	AO8						Yes No
	AP8						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	8	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521 (June 1997), Walter de Gruyter & Company
AS	8	Iannolo, G., et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," <i>J. Mol. Biol.</i> 248:835-844 (1995), Academic Press Limited
AT	8	Jiang, X., et al., "Norwalk Virus Genome Cloning and Characterization," <i>Science</i> 250:1580-1583 (1990), American Association for the Advancement of Science

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	AA9						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9						Yes No
	AM9						Yes No
	AN9						Yes No
	AO9						Yes No
	AP9						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	9	Kovacs-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophage," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946 (1993), National Academy Press
AS	9	Kratz, P. A., et al., "Native display of complete foreign protein domains on the surface of hepatitis B virus capsids," <i>Proc. Natl. Acad. Sci. USA</i> 96:1915-1920 (March 1999), National Academy Press
AT	9	Landschulz, W. H., et al., "The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins," <i>Science</i> 240:1759-1764 (1988), American Association for the Advancement of Science

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	AA10						
	AB10						
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	AD10						
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	AI10						
	AJ10						
	AK10						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL10						Yes No
	AM10						Yes No
	AN10						Yes No
	AO10						Yes No
	AP10						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>10</u>	Leake, C. J., et al., "Cytopathic Effect and Plaque Formation by Arboviruses in a Continuous Cell Line (XTC-2) from the Toad <i>Xenopus laevis</i> ," <i>J. Gen. Virol.</i> 35:335-339 (1977), Society for General Microbiology
AS	<u>10</u>	Lee, K. H., et al., "Two-Dimensional Electrophoresis of Proteins as a Tool in the Metabolic Engineering of Cell Cycle Regulation," <i>Biotech. and Bioeng.</i> 50:336-340 (1996), John Wiley & Sons, Inc.
AT	<u>10</u>	Liljeström, P. and Garoff, H., "A New Generation of Animal Cell Expression Vectors Based on the Semliki Forest Virus Replicon," <i>Bio/technology</i> 9:1356-1361 (1991), Nature Publishing Group

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>			ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
			FIRST NAMED INVENTOR Renner et al.	FILING DATE December 12, 2003

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA11						
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL11						Yes No
	AM11						Yes No
	AN11						Yes No
	AO11						Yes No
	AP11						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>11</u>	Liljeström, P., "Alphavirus expression systems," <i>Curr. Opin. Biotech.</i> 5:495-500 (1994), Current Biology Ltd
AS	<u>11</u>	Lo-Man, R., et al., "A recombinant virus-like particle system derived from parvovirus as an efficient antigen carrier to elicit a polarized Th1 immune response without adjuvant," <i>Eur. J. Immunol.</i> 28:1401-1407 (April 1998), WILEY-VCH Verlag GmbH
AT	<u>11</u>	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318 (April 1998), Elsevier Science B.V. for Federation of European Biochemical Societies.

EXAMINER

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL12						Yes
	AM12						No
	AN12						Yes
	AO12						No
	AP12						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	12	Lundstrom, K., "Alphaviruses as expression vectors," <i>Curr. Opin. Biotech.</i> 8:578-582 (October 1997), Current Biology Ltd
	AS	12	Matsui, S. M., et al., "The Isolation and Characterization of a Norwalk Virus-specific cDNA," <i>J. Clin. Invest.</i> 87:1456-1461 (1991), American Society for Clinical Investigation Inc.
	AT	12	Minenkova, O. O., et al., "Design of specific immunogens using filamentous phage as the carrier," <i>Gene</i> 128:85-88 (1993), Elsevier Science Publishers B.V.

EXAMINER

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FOREIGN PATENT DOCUMENTS

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	AL13						Yes No
	AM13						Yes No
	AN13						Yes No
	AO13						Yes No
	AP13						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>13</u>	Morein, B., et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," <i>Nature</i> 308:457-460 (1984), Nature Publishing Group
AS	<u>13</u>	Neurath, A. R., et al., "Hepatitis B Virus Surface Antigen (HBsAg) As Carrier for Synthetic Peptides Having An Attached Hydrophobic Tail," <i>Mol. Immunol.</i> 26:53-62 (1989), Pergamon Press
AT	<u>13</u>	O'Shea, E. K., et al., "Mechanism of Specificity in the Fos-Jun Oncoprotein Heterodimer," <i>Cell</i> 68:699-708 (1992), Cell Press

EXAMINER	DATE CONSIDERED

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	AL14						Yes
	AM14						No
	AN14						Yes
	AO14						No
	AP14						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>14</u>	Perham, R. N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31 (1995), Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies
AS	<u>14</u>	Petrenko, V. A., et al., "A library of organic landscapes on filamentous phage," <i>Protein Eng.</i> 9:797-801 (1996), Oxford University Press
AT	<u>14</u>	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6 (January 1999), Elsevier Science B.V., for Federation of European Biochemical Societies.

EXAMINER

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	AL15						Yes No
	AM15						Yes No
	AN15						Yes No
	AO15						Yes No
	AP15						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	15	Raychaudhuri, S. and Rock, K. L., "Fully mobilizing host defense: Building better vaccines," <i>Nature Biotechnol.</i> 16:1025-1031 (November 1998), Nature America Inc.
AS	15	Redfield, R. R., et al., "Disseminated Vaccinia in a Military Recruit with Human Immunodeficiency Virus (HIV) Disease," <i>N. Eng. J. Med.</i> 316:673-676 (1987), Massachusetts Medical Society.
AT	15	Renner, W. A., et al., "Recombinant Cyclin E Expression Activates Proliferation and Obviates Surface Attachment of Chinese Hamster Ovary (CHO) Cells in Protein-Free Medium," <i>Biotech. Bioeng.</i> 47:476-482 (1995), John Wiley & Sons Inc.

EXAMINER	DATE CONSIDERED

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	AL16						Yes No
	AM16						Yes No
	AN16						Yes No
	AO16						Yes No
	AP16						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Romagnani, S., "The Th1/Th2 paradigm," <i>Immunol. Today</i> 18:263-266 (June 1997), Elsevier-Science Ltd
	AS	16	Schlesinger, S., Alphaviruses - vectors for the expression of heterologous genes," <i>TIBTECH</i> 11:18-22 (1993), Elsevier Science Publishers Ltd. (UK).
	AT	16	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508 (July 1997), National Academy of Sciences

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL17						Yes No
	AM17						Yes No
	AN17						Yes No
	AO17						Yes No
	AP17						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>17</u>	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8+ Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443 (1991), American Association for the Advancement of Science
AS	<u>17</u>	Stollar, V., "Togaviruses in Cultured Arthropod Cells," in <i>The Togaviruses: Biology, Structure, Replication</i> , Schlesinger, R. W. (ed.), Academic Press, New York, NY, pp. 612-615 (1980)
AT	<u>17</u>	Strauss, J. H. and Strauss, E. G., "The Alphaviruses: Gene Expression, Replication, and Evolution," <i>Microbiol. Rev.</i> 58:491-562 (1994), American Society for Microbiology

EXAMINER	DATE CONSIDERED
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL18						Yes No
	AM18						Yes No
	AN18						Yes No
	AO18						Yes No
	AP18						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	18	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using β -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819 (1981), Blackwell Publishing, Inc.
AS	18	Topchieva, I. and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," <i>J. Colloid Interface Sci.</i> 213:29-35 (May 1999), Academic Press
AT	18	Townsend, A. and Bodmer, H., "Antigen Recognition by Class I-Restricted T Lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624 (1989), Annual Reviews Inc.

EXAMINER	DATE CONSIDERED

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL19						Yes No
	AM19						Yes No
	AN19						Yes No
	AO19						Yes No
	AP19						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>19</u>	Twomey, T., <i>et al.</i> , "Structure and immunogenicity of experimental foot-and-mouth disease and poliomyelitis vaccines," <i>Vaccine</i> 13:1603-1610 (1995), Elsevier Science Ltd.
AS	<u>19</u>	Ulrich, R., <i>et al.</i> , "Core Particles of Hepatitis B Virus as Carrier for Foreign Epitopes," <i>Adv. in Virus Res.</i> 50:141-182 (January 1998), Academic Press
AT	<u>19</u>	VanCott, T. C., <i>et al.</i> , "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," <i>J. Virol.</i> 71:4319-4330 (June 1997), American Society for Microbiology

EXAMINER	DATE CONSIDERED
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	AL20						Yes No
	AM20						Yes No
	AN20						Yes No
	AO20						Yes No
	AP20						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>20</u>	Warnes, A., et al., "Expression of the measles virus nucleoprotein gene in <i>Escherichia coli</i> and assembly of nucleocapsid-like structures," <i>Gene</i> 160:173-178 (1995), Elsevier Science B.V.
AS	<u>20</u>	Watson, E., et al., "Structure determination of the intact major sialylated oligosaccharide chains of recombinant human erythropoietin expressed in Chinese hamster ovary cells," <i>Glycobiology</i> 4:227-237 (1994), Oxford University Press
AT	<u>20</u>	Xiong, C., et al., "Sindbis Virus: An Efficient, Broad Host Range Vector for Gene Expression in Animal Cells," <i>Science</i> 243:1188-1191 (1989), The American Association for the Advancement of Science

EXAMINER

DATE CONSIDERED

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	AL21						Yes No
	AM21						Yes No
	AN21						Yes No
	AO21						Yes No
	AP21						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>21</u>	Zang, M., et al., "Production of Recombinant Proteins in Chinese Hamster Ovary Cells Using a Protein-Free Cell Culture Medium," <i>Bio/technology</i> 13:389-392 (1995), Nature Publishing Company
AS	<u>21</u>	Invitrogen Manual, "Sindbis Expression System Version E," Catalog No. K750-01, Life Technologies (April 2002)
AT	<u>21</u>	Boorsma, M., et al., "A temperature-regulated replicon-based DNA expression system," <i>Nature Biotechnol.</i> 18:429-432 (April 2000), Nature America Inc.

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	AM22						Yes No
	AN22						Yes No
	AO22						Yes No
	AP22						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>22</u>	Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR. Analysis of the structural effects on the activity of synthetic immunogens," <i>Eur. J. Biochem.</i> 217:171-187 (1993), Blackwell Science Ltd on behalf of the Federation of European Biochemical Societies
AS	<u>22</u>	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377 (1996), National Academy Press
AT	<u>22</u>	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," <i>J. Biol. Chem.</i> 264:7882-7888, American Society for Biochemistry and Molecular Biology, Inc. (1989).

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	AO23						No
	AP23						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>23</u>	Hui, E.K.-W., et al., "Hepatitis B viral core proteins with an N-terminal extension can assemble into core-like particles but cannot be enveloped," <i>J. Gen. Virol.</i> 80:2647-2659, Society for General Microbiology (October 1999).
	AS	<u>23</u>	Lo, K.K.-W., et al., "Surface-modified mutants of cytochrome P450 _{cam} : enzymatic properties and electrochemistry," <i>FEBS Lett.</i> 451:342-346, Elsevier Science B.V. (May 1999).
	AT	<u>23</u>	Rudolf, M.P., et al., "Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, American Association of Immunologists (July 2000).

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	AM24						Yes No
	AN24						Yes No
	AO24						Yes No
	AP24						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>24</u>	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993).
	AS	<u>24</u>	Zhou, S., and Standring, D.N., "Cys Residues of the Hepatitis B Virus Capsid Protein Are Not Essential for the Assembly of Viral Core Particles but Can Influence Their Stability," <i>J. Virol.</i> 66:5393-5398, American Society for Microbiology (1992).
	AT	<u>24</u>	International Preliminary Examination Report for International Application No. PCT/IB99/01925, search completed on August 18, 2000, European Patent Office, Munich

EXAMINER

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>			ATTY. DOCKET NO. 1700.0030003/JAG/BJD/SJE	APPLICATION NO. 10/733,582
			FIRST NAMED INVENTOR Renner et al.	
			FILING DATE December 12, 2003	ART UNIT 1614

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA25						
	AB25						
	AC25						
	AD25						
	AE25						
	AF25						
	AG25						
	AH25						
	AI25						
	AJ25						
	AK25						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL25						Yes No
	AM25						Yes No
	AN25						Yes No
	AO25						Yes No
	AP25						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>25</u>	International Search Report for International Application No. PCT/IB99/01925, mailed on June 29, 2000, European Patent Office, The Hague, Netherlands
AS	<u>25</u>	
AT	<u>25</u>	

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